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Constitutive equations for polymer melts and solutions ...

Constitutive Equations for Polymers

Giasekus H (1982) A simple constitutive equation for polymer fluids based on the concept of deformation-dependent tensorial mobility. J Non-Newtonian Fluid Mech 11:69-109 Google Scholar 11. Larson RG (1984) A constitutive equation for polymer melts based on partially extending strand convection.

Review on tube model based constitutive equations for ...

Constitutive Equations for Polymer Melts and Solutions presents a description of important constitutive equations for stress and birefringence in polymer melts, as well as in dilute and concentrated solutions of flexible and rigid polymers, and in liquid crystalline materials. The book serves as an introduction and guide to constitutive equations, and to molecular and phenomenological theories of polymer motion and flow.

(PDF) Constitutive equations for polymer melts and ...

where D_t is the substantial time derivative and e_i (for $i = 1, 2, 3$) are the unit vectors along the principal axes of D . When at least two of the eigenvalues of D coincide, the corresponding components in Ω must be set equal to those in W , which makes the definition of Ω in Eq. unique. 12,14 12. D. Yao, "A non-Newtonian fluid model with an objective vorticity," J. Non-Newtonian Fluid ...

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Thermally ...

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Working with the tube model for entangled polymer melts, we propose a molecular constitutive equation for an idealized polymer architecture, which, like LDPE, has multiple branch points per molecule.

Constitutive equations for polymer melts and solutions ...

Abstract. We review constitutive modeling of solutions and melts of linear polymers, focusing on changes in rheological behavior in shear and extensional flow as the concentration increases from unentangled dilute, to entangled, to dense melt. The rheological changes are captured by constitutive equations, prototypes of which are the FENE-P model for unentangled solutions and the DEMG model for entangled solutions and melts.

Modeling nonlinear rheology of unentangled polymer melts ...

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Constitutive Equations for Polymer Melts and Solutions ...

Likhtman, A. E., and R. S. Graham, " Simple constitutive equation for linear polymer melts derived from molecular theory: Rolie-Poly equation," J. Non-Newton. Fluid Mech. 114 , 1- 12 (2003). [https://doi.org/10.1016/S0377-0257\(03\)00114-9](https://doi.org/10.1016/S0377-0257(03)00114-9)] was derived as a simplified differential approximation of the Graham-Likhtman and Milner-McLeish (GLaMM) model [35 35.

The Mesoscopic Constitutive Equations

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for Polymeric Fluids ...

The experimental data of Matsumiya et al. [Macromolecules 51, 9710–9729 (2018)] for start-up and the steady-state elongational flow of monodisperse unentangled polystyrene PS27k and poly(p-tert-butylstyrene) PtBS53k melts are analyzed based on the relaxation spectrum of the Rouse model and a single integral constitutive equation. As shown by Lodge and Wu [Rheol.

Differential viscoelastic constitutive equations for ...

Constitutive Equations for Polymers References: • FA Morrison, Understanding Rheology, Oxford (2001) • RG Larson, Constitutive Equations for Polymer Melts and Solutions, Butterworths (1988) • RB Bird, RC Armstrong, O Hassager, Dynamics of Polymeric Liquids, Vol. 1+2, Wiley (1987)

Bing: Constitutive Equations For Polymer Melts

Differential constitutive equations for polymer melts: The extended Pom–Pom model Wilco M. H. Verbeeten, Gerrit W. M. Peters, a) and Frank P. T. Baaijens Materials Technology, Faculty of Mechanical Engineering, Eindhoven University of Technology, P.O. Box 513, 5600 MB Eindhoven, The Netherlands

Differential constitutive equations for

polymer melts: The ...

Barnes, H.A.; Roberts, G.P. A simple empirical model describing the steady-state shear and extensional viscosities of polymer melts. *J. Non-Newton. Fluid Mech.* 1992, 44, 113-126. [Google Scholar] Zatloukal, M. Differential viscoelastic constitutive equations for polymer melts in steady shear and elongational flows. *J. Non-Newton.*

Frame-invariant formulation of novel generalized Newtonian ...

Constitutive equations for melts and concentrated solutions of linear polymers are derived as consequences of dynamics of a separate macromolecule. The model is investigated for viscometric flows. It was shown that the model gives a good description of non-linear effects of simple shear polymer flows: viscosity anomalies, first and second normal stresses, non-steady shear stresses.

Constitutive Equations for Polymer Melts and Solutions ...

His works include the constitutive equations for polymer melts, the application of rheology to the processing of polymers, and structure-property relationships for polymers. The focus of his work on rheology is the field of non-linear shear and elongational behavior of polymer melts and effects of polydispersity, branching and blending on melt behavior.

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Simple constitutive equation for linear polymer melts ...

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Modeling the Rheology of Polymer Melts and Solutions ...

The aim of the present paper is to evaluate the suitability of these advanced constitutive equations in modeling of steady flows. This will be done through investigation of three polymer melts (LDPE, mLLDPE, PVB) under steady state shear and uniaxial extensional flows, which usually occur in combination in polymer processing. 2.

Constitutive Equations For Polymer Melts

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